

Overview

Working with Mylar

- Tasks and contexts make working with large systems easier
- Bugs/issues/tasks are integrated and easy to manage

Demos highlighting key features

- Working with task context
- Eclipse integration (SDK)
- · Repository integration (Bugzilla, JIRA)

Building on Mylar

- · Internals & architecture
- Framework & APIs

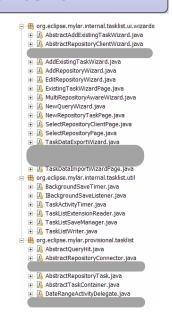
Demo 1: task context

Without Mylar

- Manually manage context
- · Use working sets, filters

With Mylar

- · Indicate what task you're working on
- Programming activity forms context for that task
- · Context becomes explicit in the UI



Task context

Tasks

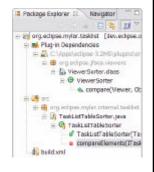
User-defined unit of work, e.g. bug report

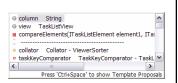
Context

- Mylar monitors your interaction
- Creates degree-of-interest model
- What you touch is in your context
- Actively managed as you work
- · Stored and easy to recall

Focused UI

- · Views: filtering, decoration
- Editors: folding, content assist
- · Context switching, editor management





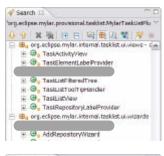
Demo 2: integration

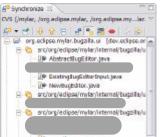
Search

 Repeatedly search and scanning results to find what's related

Synchronize

 Sometimes you only want to commit or update a subset

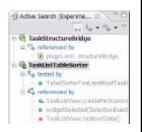




Integration

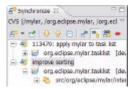
Active search

- Related elements become interesting
- Search is seeded and scoped by task context



Active change sets

- Commit just a piece of what you've changed
- Automatically managed with tasks
- Resources in context mapped to change set



Demo 3: task repositories

Without Mylar

Work with various web UIs to manage bugs/issues/tasks

With Mylar

- Task management is integrated
- Similar to source repositories
- · Get persistence, offline editing



Task repositories

Connectors

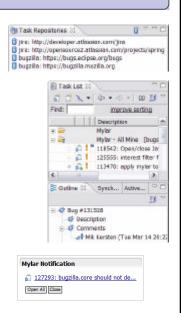
- · Similar to source repositories
- Support Bugzilla and JIRA

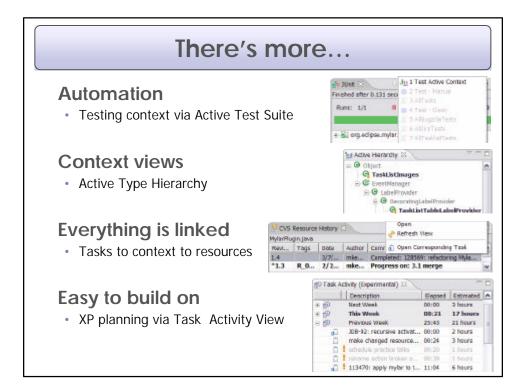
Tasks

- Local
- Web linked
- Repository queries
- · Authoring, offline editing

One integrated task list

- · Personalized notes, reminders
- · Archive, filters, notifications





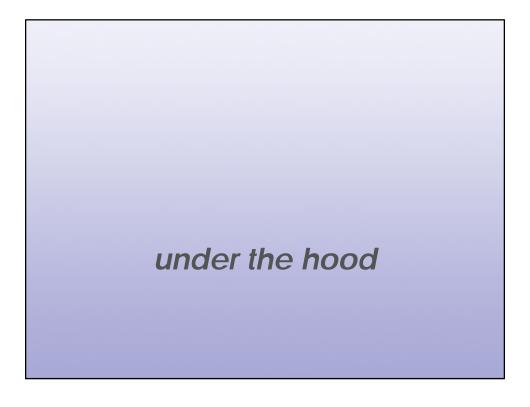
Changing how we work with Eclipse

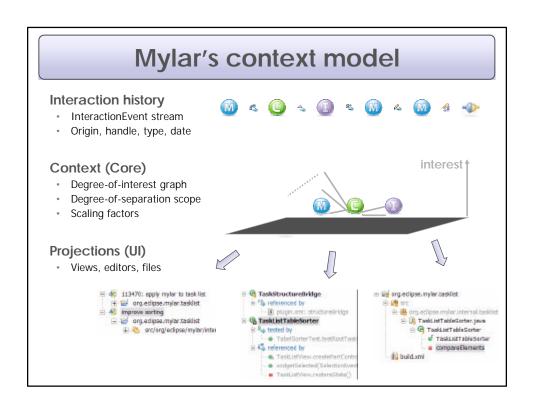
What you need to do

- Buy into working with tasks
- Have patience with an evolving UI (v0.5)

Once tasks are explicit

- Reduces information overload
- Information you need to get work done is at your finger tips
- Context switching and recalling old tasks become effortless
- UI automation (e.g. working sets, search, commit messages)
- UI for task management is consistent and integrated
- Keeps you in Eclipse and out of your browser and inbox





Context framework

Mylar Core

- Generic model, context management, persistence
- Structure bridges: map context to existing models: e.g. JavaModel

Designed to scale

- · Model scales with interaction, not with workspace size
- We generate in the order of 1MB of interaction history/month

Mylar UI

- Decorators, managed views and editors, interest projection
- UI bridges: selection/edit/refactoring capture, map to UI

Designed to integrate

Made possible by Eclipse's modularity and component model

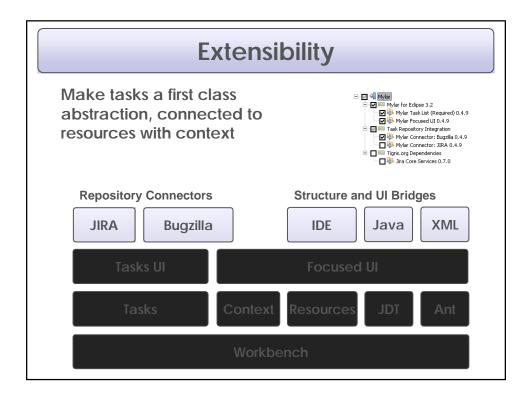
Task framework

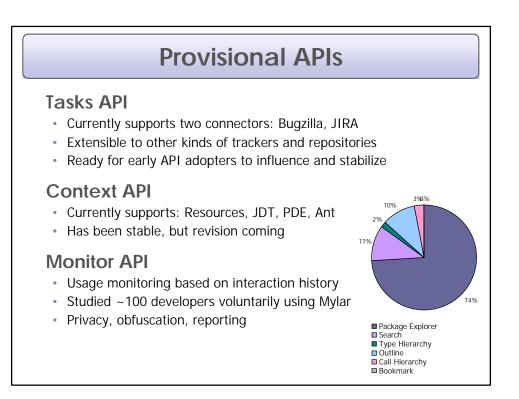
Similar to SDK's abstractions for resources

- · Core facilities: lifecycle, persistence, synchronization
- · UI facilities: editing, diffs, notifications

Repository connectors

- Extensibility for task/bug/issue trackers/repositories
- UI and persistence provided
- JIRA connector is around 500 LOC, bridges to JIRA Core Services





Community

June 2005

· Eclipse.org project created

July - Oct: 0.3

- Users: user study, ~100 participants, 353 bugzilla reports resolved
- Developers spend more time coding, less searching and navigating

November - March: 0.4.0 - 0.4.10

- Users: 1-2K installs of each and growing, 406 bugzilla reports resolved
- · Contributors: dozens patches applied
- · Integrators: JIRA, prototype for nntp

Now (0.5) - Callisto

- · Users: making context more first class, easier sharing and reuse
- Integrators: provisional API stability, early API adopters

Mylar 1.0

· Tools project quality and API contract



Mylar

Reducing information overload one task at a time

Committers

Mik Kersten, Gail Murphy, Robert Elves (pending)

Notable contributions from

Eric Booth, Wesley Coelho, Leah Findlater, Brock Janiczak, Eugene Kuleshov, Shawn Minto, Ken Sueda

More info

eclipse.org/mylar

BOF tonight at 8:45pm Grand Ballroom